

# INSTALLATION curbed shower with no access from below

## GARDA-LINE DRAIN

### Preparation

All preparation of the supporting surface must be done prior to installation of the GARDA-Line lower trench. The supporting surface must be clean, even and load bearing prior to installation.

### INSTALLATION OF LOWER TRENCH

1. Locate and cut a hole in the substrate for the drain outlet and coupling to the waste line (move existing waste line if required). Limit the diameter of the hole to 4" (101 mm) maximum to ensure proper support. GARDA-Line is connected to the waste line with the appropriate mechanical no-hub coupling (not provided) in accordance with the coupling manufacturer's instructions.

**NOTE:** When drain install is required to be flush against the finished wall, backer board will install over the 1" flange of the lower trench

With access to the plumbing from below, the waste line can be connected after installing GARDA-Line. The channel body may be set without making a connection to the waste line concurrently.

2. Create a mortar bed on the supporting surface where the drain is to be placed creating a bed for the lower trench. Embed the lower trench into mortar bed making sure it is level and plumb.

i) If floor pitch needs to begin at a zero level, the Garda-Line lower trench can be recessed into the subfloor.

ii) Cut out a groove to fit the lower trench so that the flanges are supported on the sub-floor. When making modifications to your subfloor you must consult a professional so that any subfloor repairs/modifications to accommodate the lower trench are in conformance with applicable building code(s).

ii) Apply a construction grade adhesive around the cut out and set the lower trench making sure it is level and plumb.

**NOTE:** DO NOT thin-set, glue, grout or waterproof inside the lower trench. The grate top must remain freely removable for access to the outlet for maintenance.

### **NO ACCESS TO WASTE LINE FROM BELOW**

- A. Set the lower trench at desired level and measure the distance from the bottom of the 2" outlet on the lower trench to the top of your existing waste pipe
- B. Bond the appropriate size DWV ABS/PVC coupling using ABS/VC primer and cement to your existing waste pipe. *This will be left to later accept the lower trench with attached rubber coupling done in following steps*
- C. Cut a 2" ABS or PVC pipe to a length 1/8" less than dimension from step B
- D. Using a 2" DWV no hub rubber coupling, connect one end to outlet of lower trench and the other end to the ABS/PVC pipe cut in step B

*You will now have the lower trench outlet connected to an ABS/PVC pipe via the rubber coupling and a coupling bonded to the top of your existing waste pipe*

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- E. When ready bond the free end of the 2" pipe and coupling assembly to the existing waste pipe using PVC/ABS primer and cement
3. Dry fit the lower trench and waterproofing membrane to cover the entire shower floor and up the walls taking care to follow all manufacturers' instructions.
4. Apply fabric membrane or paint-on waterproofing onto the sub-floor and walls making sure to follow all manufacturers' recommendations. The waterproofing should cover the flange of the GARDA-Line lower trench and stop 1/32" to 1/16" (0.8mm to 1mm) shy of the edge making sure NOT to run down into the lower trench.
5. With access still available from below attach one end of the mechanical coupling to the lower trench drain outlet and the other to the p-trap following manufacturers recommendations.

apply fabric membrane or paint-on waterproofing to the top of the TileInsert covering support and wait for the waterproofing to dry.

**NOTE:** If using a fabric membrane waterproofing, apply a construction grade adhesive, such as PL Premium or Sika Flex, to the top of the TileInsert covering support and bond fabric membrane waterproofing to it.

b) Measure and cut tile making sure that at least a 1/16" (1mm) gap is left around all four sides for drainage.

c) Apply thin-set to the covering support and tile.

7. Place grate top into the installed lower trench. Use adjustable feet to raise the grate top to 1/16" below finishing material height.

**NOTE:** TileInsert covering support does not have height adjustable feet as it is meant to mimic floor substrate installation to achieve even height.

## GRATE TOP INSTALLATION

### **IF USING EuroTop / GeoTop / WedgeWire**

6. Cover the grate top with painters tape and set inside lower trench to use as a guide where to stop floor tiles. Continue to tile floor and walls with unmodified thin-set mortar making sure to follow all manufacturers' recommendations.

### **IF USING TileInsert Covering Support**

- a) when using the TileInsert covering support,

## **Maintenance**

GARDA-Line linear drains require no special maintenance and are resistant to mould and fungi growth. The grate may be removed to clean the channel body and the drainpipe. Stainless steel grates exposed to the environment or aggressive substances should be cleaned periodically using a mild household cleaner. Regular cleaning maintains the neat appearance of stainless steel and reduces the risk of corrosion. All cleaning agents must be free of hydrochloric and hydrofluoric acid